

Conservation Effects Worksheet

Land Use:

Forest Guidance Sheet No. 1

Current Treatment	Treatment Alternative
This open rolling, 40 acre field with moderate to steep slopes is being used as a marginally productive pastureland producing no net income. Existing cover is a very thin growth of Canada bluegrass, fescue, and broomsedge sod. The field is part of a pasture that is heavily grazed. There is no visible erosion occurring with in the field. There is no surface water in the immediate vicinity of the field. There is no evidence of threatened or endangered species in or adjacent to the field. Limited use of the field by wildlife such as rabbits and small non-game birds and mammals. Effects on soil, air, and water are negligible.	Land use conversion from unproductive grassland to forestland will diversify farm income and improve wildlife values and numbers
Resource Concerns	Proposed Practices
Animal Habitat-Other Conservation System Cost Effectiveness Plants unsuitable for Intended Use	Brush Management Fence Forest Site Preparation Pest Management Tree/Shrub Establishment Use Exclusion Wildlife Upland Habitat Management
Current Treatment Effects	Proposed Treatment Effects
No acres of high quality habitat. Soil does not support adequate ground cover for wildlife or grazing	Planting of tress and shrubs will increase diversity making 40 acres more suitable to wider variety of wildlife
Land does not produce a suitable net income. Costs to develop adequate pasture are more than returns.	Planting trees and shrubs will replace existing cover to meet economic objectives of landowner
Field does not produce marketable crop or provide food and cover for wildlife	Restocking of field to trees and shrubs to suitable species will increase timber and wildlife growth; fencing and brush control will protect plantings.

Conservation Effects Worksheet

Land Use:

Forest Land Guidance Sheet No. 2

Current Treatment	Treatment Alternative
Well drained soils with moderate to steep slopes support an oak-hickory stand with few seedlings and saplings. There is a perennial stream running through the 80 ac woodlot. Livestock are not restricted and the entire woodlot has been subjected to grazing. An old logging road is present and there are also some existing skid trails. The trees range in size from saplings to small, low quality sawtimber. There is little evidence of wildlife use. There is no evidence of threatened or endangered plants or animals. Some moderate stream bank erosion is evident. The stand is currently not being managed.	The woodland resources will be improved by removing deformed, damaged, and diseased trees. Excluding livestock will stabilize streambanks, improve water quality, and increase wildlife values. Skid trails and roads will be seeded to grass/legume cover.
Resource Concerns	Proposed Practices
Animal Habitat-Other Conservation System Cost Effectiveness Plants Health & Vigor Sediment Yield, Average Annual Streambank Erosion-Numeric (Tons/Year)	Critical Area Planting Fence Forest Harvest Trails and Landings Forest Stand Improvement Streambank and Shoreline Protection Use Exclusion Wildlife Upland Habitat Management
Current Treatment Effects	Proposed Treatment Effects
80 acres of existing low quality wildlife habitat	Seeding skid trails, leaving den and mast trees, controlling erosion, promoting forest sprouts and seedling regeneration results in 80 acres of high quality wildlife habitat.
Current value of timber is minimal due to poor quality. Wildlife value is low due to lack of seeding and sprout growth from livestock grazing.	Woodland improvement will improve stand quality, fencing will improve forest use by wildlife and promote regeneration of seedlings and sprouts.
Damaged, diseased, deformed trees in stand; livestock damage to understory; no regeneration of seedlings or sprouts.	Fencing and woodland improvement will increase seedling and stand growth and stop further damage to stand by livestock.
Site is losing 20 tons/year	Less than 1 ton/year with conservation improvements.
100 tons/year	10 tons/year – Livestock removed from the area.